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Graham Denham* (gdenham@uwo.ca), Department of Mathematics, University of Western Ontario, London, ON N6A5B7, Canada, and **Hal Schenck**, Department of Mathematics, Texas A&M University. *Resonance: getting past H^1 .*

From the work of various authors and many years, the resonance variety of a hyperplane arrangement is almost completely understood, in cohomological degree 1. The talk will describe recent work looking for equally satisfying results in higher degrees. The phenomenon of "propagation" shows that part of the answer actually comes from what happens in degree one. To isolate new behaviour, then, we consider the class of arrangements for which no three hyperplanes intersect in codimension two. (Received September 26, 2006)